

ABSTRACT OF THE DISCLOSURE

Computer method and apparatus for managing process and plant engineering data for chemical or other engineering processes across applications. The method and 5 apparatus include a respective class view for each of multiple software applications, a composite class view, a conceptual data model and a resulting consolidated multi-tier data model. The multi-tier data model enables sharing of engineering and other data from the multiple software applications with other process and plant engineering applications and programs. An amalgamator synthesizes the class views, composite 10 views and conceptual data model into the multi-tier data model. In forming the multi-tier data model, there is a one-to-one mapping between an attribute in the class view and composite class view, and a one-to-one mapping between an attribute in the composite class view and a data path in the conceptual data model to corresponding software applications from which the attribute originated.